

**52906, 33408, AND 12189, NOVEL POTASSIUM CHANNEL FAMILY
MEMBERS AND USES THEREOF**

Abstract

The invention provides isolated nucleic acids molecules, designated 52906,

5 33408, or 12189 nucleic acid molecules, which encode novel potassium channel
members. The invention also provides antisense nucleic acid molecules, recombinant
expression vectors containing 52906, 33408, or 12189 nucleic acid molecules, host cells
into which the expression vectors have been introduced, and nonhuman transgenic
animals in which a 52906, 33408, or 12189 gene has been introduced or disrupted. The
10 invention still further provides isolated 52906, 33408, or 12189 proteins, fusion proteins,
antigenic peptides and anti-52906, 33408, or 12189 antibodies. Diagnostic methods
utilizing compositions of the invention are also provided.

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